

# Retired 30+ spreadsheet-bound processes onto a production cloud platform — with full data lineage and audit trail that passed internal controls review

Arrow Street Capital — 10 weeks

We replaced brittle on-premise and spreadsheet workflows with a production, cloud-native platform on AWS — cutting manual reconciliation effort by an estimated 60% while giving the firm end-to-end data lineage, least-privilege access and a complete audit trail that stood up to internal controls review with zero findings.

## THE CHALLENGE

A capital-markets firm was running critical operations across brittle on-premise systems and spreadsheets — slow, error-prone, and impossible to evidence under scrutiny. They needed to modernise, but a regulated investment business cannot simply lift its data into generic SaaS: it must be able to prove who accessed what, when, and why. Off-the-shelf tools were too shallow to model the workflows, and a naive build would have failed the firm's own controls review on access, data residency and auditability.

## WHAT WE BUILT

- Ran a discovery to map data flows, access requirements and the regulatory obligations the platform had to satisfy — audit trails, data residency and least-privilege access treated as first-class requirements, not afterthoughts
- Architected a cloud-native platform on AWS with security engineered in from day one: IAM least-privilege, encryption in transit and at rest via KMS, VPC isolation, and full CloudTrail auditability
- Built core services with infrastructure-as-code so every environment is reproducible and every change is reviewed, versioned and traceable
- Instrumented data lineage and immutable audit logging so the firm can evidence every access and transformation — a regulatory requirement, engineered as a native capability rather than bolted on

## OUTCOMES

- Cut manual reconciliation effort by an estimated 60% and passed internal controls review with zero findings on access and auditability
- A production, cloud-native platform replacing fragile manual processes, with security and traceability engineered in
- Reproducible infrastructure-as-code environments, deployable with confidence and a full change audit trail